



WINSFEED

TWISTSFEED

FLACHER BOHRKOPF PPF_
MIT 3 SCHNEIDEN

FLACHER BOHRKOPF MIT 3 SCHNEIDEN FÜR BOHRUNGEN MIT FLACHEM GRUND

- Hervorragende Bohrgenauigkeit und Oberflächengüte •*
- Gesteigerte Produktivität und Kostensenkung •*
- Kompatibel mit vorhandenen TwistSFeed-Haltern •*
- Bohrkopfdurchmesserbereich: Ø12,0-25,5 mm in 0,5 mm Stufen •*
- Zentrierspitze für höchste Bohrungs­genauigkeit •*
- IN2205 Qualität für höchste Verschleiß- und Ausbruchfestigkeit •*
- Längere Standzeit •*



Produktübersicht

Die hochproduktive **TwistSFeed**-Produktlinie mit 3-schneidigem Wechselbohrkopf wird um einen Flachbohrkopf für Bohrungen mit flachem Grund erweitert.

Die neue **TwistSFeed**-Bohrkopfsreihe steigert die Produktivität und senkt die Kosten, indem sie die Zykluszeiten minimiert und zwei Bearbeitungsschritte auf nur einen reduziert.

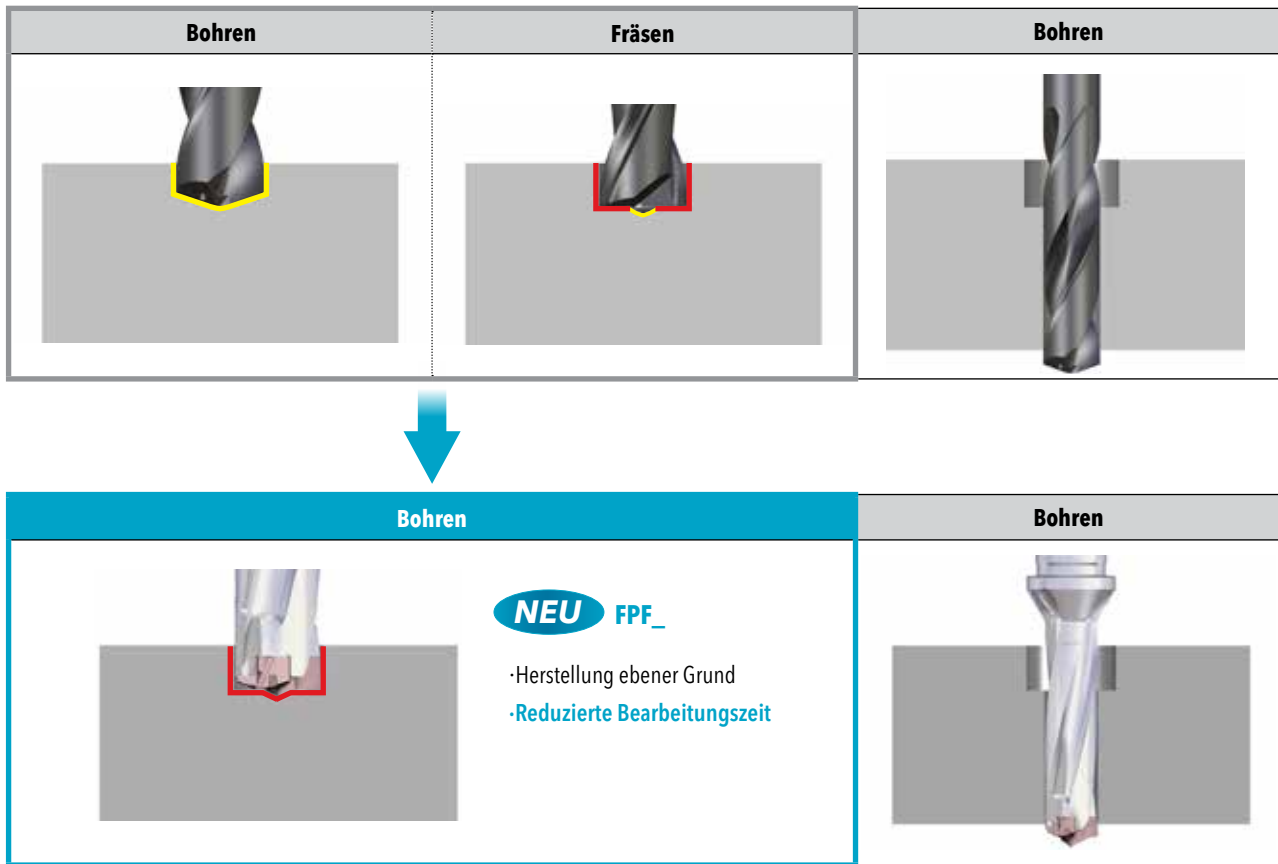
Der flache Bohrkopf eignet sich besonders zum Herstellen einer Schraubenkopfsenkung und garantiert eine hervorragende Leistung in Gusseisen und in Stahl.

Technische Merkmale & Vorteile

- Hervorragende Bohrgenauigkeit und Oberflächengüte bei Bohranwendungen mit ebenem Grund
- Gesteigerte Produktivität und Kostensenkung durch Reduzierung von 2 Bearbeitungsschritten auf nur einen
- Der neue Flachbohrkopf ist mit den aktuellen **TwistSFeed**-Haltern derselben Größe kompatibel
- Durchmesserbereich des Bohrkopfes: Ø12,0 - 25,5 mm in 0,5 mm Schritten
- Wechselkopfbohrer mit 3 Schneiden
- Zentrierspitze für hochgenaue Bohrungspräzision
- Die mehrschichtige Beschichtung der Sorte IN2205 bietet eine hohe Verschleißfestigkeit und Widerstandsfähigkeit gegen Absplittern und verlängert die Standzeit



Reduziert 2 Bearbeitungsschritte auf einen



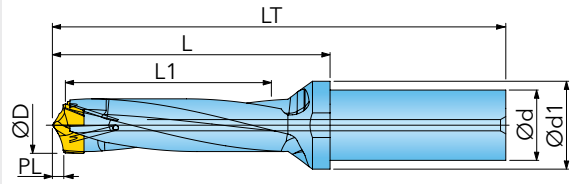
Empfohlene Schnittdaten

| ISO | Material | Eigenschaften | Zugfestigkeit (N/mm ²) | Härte HB | Material Nr. | Schnittgeschwindigkeit Vc(m/min) | Vorschub (mm/U) vs. Bohrdurchmesser | | | |
|-----|---|------------------|------------------------------------|----------|--------------|----------------------------------|-------------------------------------|-----------|-----------|-----------|
| | | | | | | | Ø12-13,5 | Ø14-15,5 | Ø16-19,5 | Ø20-25,5 |
| P | unlegierter Stahl | <0,25%C Geglüht | 420 | 125 | 1 | 80-140 | 0,25-0,45 | 0,30-0,50 | 0,35-0,55 | 0,40-0,60 |
| | | ≥0,25%C Geglüht | 650 | 190 | 2 | 80-130 | 0,25-0,45 | 0,30-0,50 | 0,35-0,55 | 0,40-0,60 |
| | Stahlguss, Automatenstahl | <0,55%C Vergütet | 850 | 250 | 3 | 80-120 | 0,25-0,45 | 0,30-0,50 | 0,35-0,55 | 0,40-0,60 |
| | | ≥0,55%C Geglüht | 750 | 220 | 4 | 70-110 | 0,25-0,45 | 0,30-0,50 | 0,35-0,55 | 0,40-0,60 |
| | niedrig legierter Stahl, Stahlguss (<5% Leg.) | Vergütet | 1000 | 300 | 5 | 50-90 | 0,25-0,45 | 0,30-0,50 | 0,35-0,55 | 0,40-0,60 |
| | | Geglüht | 600 | 200 | 6 | 80-120 | 0,20-0,40 | 0,25-0,45 | 0,30-0,50 | 0,35-0,55 |
| | | Vergütet | 930 | 275 | 7 | 70-110 | 0,20-0,40 | 0,25-0,45 | 0,30-0,50 | 0,35-0,55 |
| | | | 1000 | 300 | 8 | 50-90 | 0,20-0,40 | 0,25-0,45 | 0,30-0,50 | 0,35-0,55 |
| | | | 1200 | 350 | 9 | 40-70 | 0,20-0,40 | 0,25-0,45 | 0,30-0,50 | 0,35-0,55 |
| | Hochlegierter Stahl, Stahlguss, Werkzeugstahl | Geglüht | 680 | 200 | 10 | 50-90 | 0,20-0,35 | 0,25-0,40 | 0,30-0,45 | 0,35-0,50 |
| | | Vergütet | 1100 | 325 | 11 | 40-80 | 0,20-0,35 | 0,25-0,40 | 0,30-0,45 | 0,35-0,50 |
| K | Kugelgraphitguss (GGG) | Ferritisch | - | 160 | 15 | 90-160 | 0,30-0,50 | 0,40-0,60 | 0,45-0,65 | 0,50-0,70 |
| | | Perlitisch | - | 250 | 16 | 80-140 | 0,30-0,50 | 0,40-0,60 | 0,45-0,65 | 0,50-0,70 |
| | Grauguss (GG) | Ferritisch | - | 180 | 17 | 90-180 | 0,30-0,45 | 0,35-0,55 | 0,40-0,60 | 0,45-0,65 |
| | | Perlitisch | - | 260 | 18 | 80-140 | 0,30-0,45 | 0,35-0,55 | 0,40-0,60 | 0,45-0,65 |
| | Temperguss | Ferritisch | - | 130 | 19 | 90-160 | 0,30-0,45 | 0,35-0,55 | 0,40-0,60 | 0,45-0,65 |
| | | Perlitisch | - | 230 | 20 | 80-140 | 0,30-0,45 | 0,35-0,55 | 0,40-0,60 | 0,45-0,65 |

■ Stahl ■ Gusseisen

TWIST SPEED WECHSELKOPF-VOLLBOHRER 3D Ø12,0-Ø25,9 Z=3 (A)

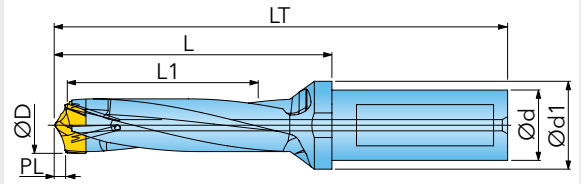
AUFNAHME KOMPATIBEL MIT DIN 1835 A




| Artikel-Nr. | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | Schlüssel | | |
|----------------|------|--------|--------|----|----|-------|-------|------|------|---|----|-----------|---|-------|
| FD1200036T3R00 | 12 | 12,0 | 12,4 | 16 | 20 | 108,7 | 60,7 | 40,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,175 |
| FD1250038T3R00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 110,5 | 62,5 | 41,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1300039T3R00 | 13 | 13,0 | 13,4 | 16 | 20 | 112,8 | 64,8 | 43,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,170 |
| FD1350041T3R00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 114,6 | 66,6 | 44,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,175 |
| FD1400042T3R00 | 14 | 14,0 | 14,4 | 16 | 20 | 116,9 | 68,9 | 46,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,018 |
| FD1450044T3R00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 118,7 | 70,7 | 47,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,175 |
| FD1500045T4R00 | 15 | 15,0 | 15,9 | 20 | 25 | 123,9 | 73,9 | 49,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,170 |
| FD1600048T4R00 | 16 | 16,0 | 16,9 | 20 | 25 | 129,0 | 79,0 | 52,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,250 |
| FD1700051T4R00 | 17 | 17,0 | 17,9 | 20 | 25 | 134,0 | 84,0 | 55,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,265 |
| FD1800054T5R00 | 18 | 18,0 | 18,9 | 25 | 32 | 146,1 | 90,1 | 58,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,385 |
| FD1900057T5R00 | 19 | 19,0 | 19,9 | 25 | 32 | 150,7 | 94,7 | 61,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,400 |
| FD2000060T5R00 | 20 | 20,0 | 20,9 | 25 | 32 | 155,3 | 99,3 | 64,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,430 |
| FD2100063T5R00 | 21 | 21,0 | 21,9 | 25 | 32 | 159,8 | 103,8 | 67,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,455 |
| FD2200066T5R00 | 22 | 22,0 | 22,9 | 25 | 32 | 164,4 | 108,4 | 70,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,440 |
| FD2300069U7R00 | 23 | 23,0 | 23,9 | 32 | 42 | 172,8 | 112,8 | 73,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,710 |
| FD2400072U7R00 | 24 | 24,0 | 24,9 | 32 | 42 | 177,4 | 117,4 | 76,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,695 |
| FD2500075U7R00 | 25 | 25,0 | 25,9 | 32 | 42 | 182,0 | 122,0 | 79,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,750 |

TWIST SPEED WECHSELKOPF-VOLLBOHRER 3D Ø12,0-Ø25,9 Z=3 (B)

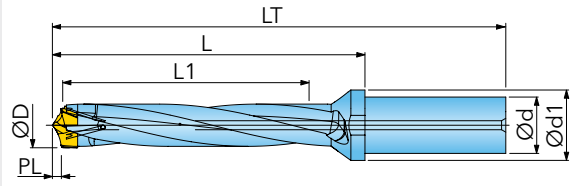
AUFNAHME KOMPATIBEL MIT DIN 1835 B



| Artikel-Nr. | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | Schlüssel |  |  kg |
|----------------|------|--------|--------|----|----|-------|-------|------|------|---|----|-----------|---|--|
| FD1200036JDR00 | 12 | 12,0 | 12,4 | 16 | 20 | 108,7 | 60,7 | 40,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1250038JDR00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 110,5 | 62,5 | 41,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1300039JDR00 | 13 | 13,0 | 13,4 | 16 | 20 | 112,8 | 64,8 | 43,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,170 |
| FD1350041JDR00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 114,6 | 66,6 | 44,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,170 |
| FD1400042JDR00 | 14 | 14,0 | 14,4 | 16 | 20 | 116,9 | 68,9 | 46,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,170 |
| FD1450044JDR00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 118,7 | 70,7 | 47,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,175 |
| FD1500045JER00 | 15 | 15,0 | 15,9 | 20 | 25 | 123,9 | 73,9 | 49,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,210 |
| FD1600048JER00 | 16 | 16,0 | 16,9 | 20 | 25 | 129,0 | 79,0 | 52,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,250 |
| FD1700051JER00 | 17 | 17,0 | 17,9 | 20 | 25 | 134,0 | 84,0 | 55,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,260 |
| FD1800054JFR00 | 18 | 18,0 | 18,9 | 25 | 32 | 146,1 | 90,1 | 58,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,380 |
| FD1900057JFR00 | 19 | 19,0 | 19,9 | 25 | 32 | 150,7 | 94,7 | 61,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,390 |
| FD2000060JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 155,3 | 99,3 | 64,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,420 |
| FD2100063JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 159,8 | 103,8 | 67,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,385 |
| FD2200066JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 164,4 | 108,4 | 70,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,450 |
| FD2300069JGR00 | 23 | 23,0 | 23,9 | 32 | 42 | 172,8 | 112,8 | 73,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,540 |
| FD2400072JGR00 | 24 | 24,0 | 24,9 | 32 | 42 | 177,4 | 117,4 | 76,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,675 |
| FD2500075JGR00 | 25 | 25,0 | 25,9 | 32 | 42 | 182,0 | 122,0 | 79,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,710 |

TWIST SPEED WECHSELKOPF-VOLLBOHRER 5D Ø12,0-Ø25,9 Z=3 (A)

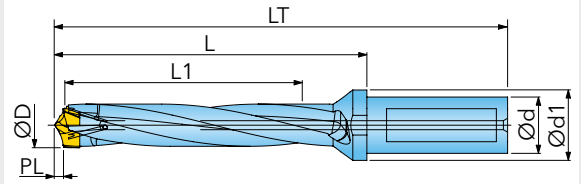
AUFNAHME KOMPATIBEL MIT DIN 1835 A



| Artikel-Nr. | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | Schlüssel | | |
|----------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|-----------|---|-------|
| FD1200060T3R00 | 12 | 12,0 | 12,4 | 16 | 20 | 132,7 | 84,7 | 64,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,140 |
| FD1250063T3R00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 135,5 | 87,5 | 66,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,165 |
| FD1300065T3R00 | 13 | 13,0 | 13,4 | 16 | 20 | 138,8 | 90,8 | 69,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,180 |
| FD1350068T3R00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 141,6 | 93,6 | 71,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,185 |
| FD1400070T3R00 | 14 | 14,0 | 14,4 | 16 | 20 | 144,9 | 96,9 | 74,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,155 |
| FD1450073T3R00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 147,7 | 99,7 | 76,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,195 |
| FD1500075T4R00 | 15 | 15,0 | 15,9 | 20 | 25 | 153,9 | 103,9 | 79,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,260 |
| FD1600080T4R00 | 16 | 16,0 | 16,9 | 20 | 25 | 161,0 | 111,0 | 84,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,350 |
| FD1700085T4R00 | 17 | 17,0 | 17,9 | 20 | 25 | 168,0 | 118,0 | 89,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,290 |
| FD1800090T5R00 | 18 | 18,0 | 18,9 | 25 | 32 | 182,1 | 126,1 | 94,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,410 |
| FD1900095T5R00 | 19 | 19,0 | 19,9 | 25 | 32 | 188,7 | 132,7 | 99,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,435 |
| FD2000100T5R00 | 20 | 20,0 | 20,9 | 25 | 32 | 195,3 | 139,3 | 104,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,415 |
| FD2100105T5R00 | 21 | 21,0 | 21,9 | 25 | 32 | 201,8 | 145,8 | 109,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,505 |
| FD2200110T5R00 | 22 | 22,0 | 22,9 | 25 | 32 | 208,4 | 152,4 | 114,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,475 |
| FD2300115U7R00 | 23 | 23,0 | 23,9 | 32 | 42 | 218,8 | 158,8 | 119,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,750 |
| FD2400120U7R00 | 24 | 24,0 | 24,9 | 32 | 42 | 225,4 | 165,4 | 124,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,795 |
| FD2500125U7R00 | 25 | 25,0 | 25,9 | 32 | 42 | 232,0 | 172,0 | 129,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,780 |

TWIST SPEED WECHSELKOPF-VOLLBOHRER 5D Ø12,0-Ø25,9 Z=3 (B)

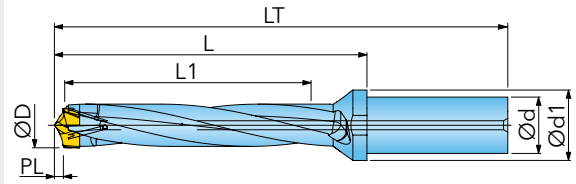
AUFNAHME KOMPATIBEL MIT DIN 1835 B



| Artikel-Nr. | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | Schlüssel | IK | kg |
|----------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|-----------|----|-------|
| FD1200060JDR00 | 12 | 12,0 | 12,4 | 16 | 20 | 132,7 | 84,7 | 64,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,115 |
| FD1250063JDR00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 135,5 | 87,5 | 66,5 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,115 |
| FD1300065JDR00 | 13 | 13,0 | 13,4 | 16 | 20 | 138,8 | 90,8 | 69,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,180 |
| FD1350068JDR00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 141,6 | 93,6 | 71,5 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,185 |
| FD1400070JDR00 | 14 | 14,0 | 14,4 | 16 | 20 | 144,9 | 96,9 | 74,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,190 |
| FD1450073JDR00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 147,7 | 99,7 | 76,5 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,210 |
| FD1500075JER00 | 15 | 15,0 | 15,9 | 20 | 25 | 153,9 | 103,9 | 79,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,250 |
| FD1600080JER00 | 16 | 16,0 | 16,9 | 20 | 25 | 161,0 | 111,0 | 84,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,250 |
| FD1700085JER00 | 17 | 17,0 | 17,9 | 20 | 25 | 168,0 | 118,0 | 89,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,285 |
| FD1800090JFR00 | 18 | 18,0 | 18,9 | 25 | 32 | 182,1 | 126,1 | 94,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,410 |
| FD1900095JFR00 | 19 | 19,0 | 19,9 | 25 | 32 | 188,7 | 132,7 | 99,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,425 |
| FD2000100JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 195,3 | 139,3 | 104,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,460 |
| FD2100105JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 201,8 | 145,8 | 109,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,490 |
| FD2200110JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 208,4 | 152,4 | 114,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,750 |
| FD2300115JGR00 | 23 | 23,0 | 23,9 | 32 | 42 | 218,8 | 158,8 | 119,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,765 |
| FD2400120JGR00 | 24 | 24,0 | 24,9 | 32 | 42 | 225,4 | 165,4 | 124,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,775 |
| FD2500125JGR00 | 25 | 25,0 | 25,9 | 32 | 42 | 232,0 | 172,0 | 129,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 0,815 |

TWIST SPEED WECHSELKOPF-VOLLBOHRER 8D Ø12,0-Ø25,9 Z=3 (A)

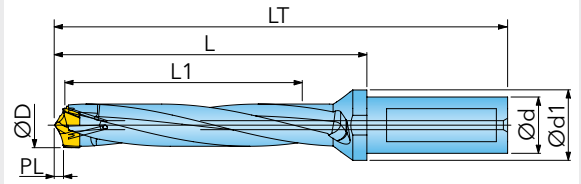
AUFNAHME KOMPATIBEL MIT DIN 1835 A



| Artikel-Nr. | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | Schlüssel | IK | kg |
|----------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|-----------|----|-------|
| FD1200096T3R00 | 12 | 12,0 | 12,4 | 16 | 20 | 168,7 | 120,7 | 100,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,190 |
| FD1250100T3R00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 173,0 | 125,0 | 104,0 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,190 |
| FD1300104T3R00 | 13 | 13,0 | 13,4 | 16 | 20 | 177,8 | 129,8 | 108,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,195 |
| FD1350108T3R00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 182,1 | 134,1 | 112,0 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,205 |
| FD1400112T3R00 | 14 | 14,0 | 14,4 | 16 | 20 | 186,9 | 138,9 | 116,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,210 |
| FD1450116T3R00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 191,2 | 143,2 | 120,0 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,215 |
| FD1500120T4R00 | 15 | 15,0 | 15,9 | 20 | 25 | 198,9 | 148,9 | 124,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,280 |
| FD1600128T4R00 | 16 | 16,0 | 16,9 | 20 | 25 | 209,0 | 159,0 | 132,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,430 |
| FD1700136T4R00 | 17 | 17,0 | 17,9 | 20 | 25 | 219,0 | 169,0 | 140,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,340 |
| FD1800144T5R00 | 18 | 18,0 | 18,9 | 25 | 32 | 236,1 | 180,1 | 148,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,470 |
| FD1900152T5R00 | 19 | 19,0 | 19,9 | 25 | 32 | 245,7 | 189,7 | 156,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,500 |
| FD2000160T5R00 | 20 | 20,0 | 20,9 | 25 | 32 | 255,3 | 199,3 | 164,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,560 |
| FD2100168T5R00 | 21 | 21,0 | 21,9 | 25 | 32 | 264,8 | 208,8 | 172,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,560 |
| FD2200176T5R00 | 22 | 22,0 | 22,9 | 25 | 32 | 274,4 | 218,4 | 180,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,585 |
| FD2300184U7R00 | 23 | 23,0 | 23,9 | 32 | 42 | 287,8 | 227,8 | 188,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,850 |
| FD2400192U7R00 | 24 | 24,0 | 24,9 | 32 | 42 | 297,4 | 237,4 | 196,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,980 |
| FD2500200U7R00 | 25 | 25,0 | 25,9 | 32 | 42 | 307,0 | 247,0 | 204,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 1,055 |

TWIST SPEED WECHSELKOPF-VOLLBOHRER 8D Ø12,0-Ø25,9 Z=3 (B)

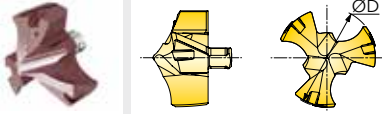
AUFNAHME KOMPATIBEL MIT DIN 1835 B



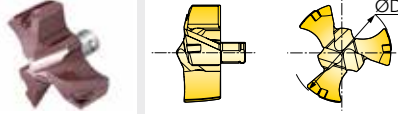
| Artikel-Nr. | D | D min. | D max. | d | d1 | LT | L | L1 | PL | Z | Bs | Schlüssel | IK | kg |
|----------------|------|--------|--------|----|----|-------|-------|-------|------|---|----|-----------|----|-------|
| FD1200096JDR00 | 12 | 12,0 | 12,4 | 16 | 20 | 168,7 | 120,7 | 100,0 | 2,74 | 3 | 12 | KFD12-13 | ✓ | 0,185 |
| FD1250100JDR00 | 12,5 | 12,5 | 12,9 | 16 | 20 | 173,0 | 125,0 | 104,0 | 2,77 | 3 | 12 | KFD12-13 | ✓ | 0,190 |
| FD1300104JDR00 | 13 | 13,0 | 13,4 | 16 | 20 | 177,8 | 129,8 | 108,0 | 2,91 | 3 | 13 | KFD12-13 | ✓ | 0,135 |
| FD1350108JDR00 | 13,5 | 13,5 | 13,9 | 16 | 20 | 182,1 | 134,1 | 112,0 | 2,94 | 3 | 13 | KFD12-13 | ✓ | 0,205 |
| FD1400112JDR00 | 14 | 14,0 | 14,4 | 16 | 20 | 186,9 | 138,9 | 116,0 | 3,17 | 3 | 14 | KFD14-15 | ✓ | 0,205 |
| FD1450116JDR00 | 14,5 | 14,5 | 14,9 | 16 | 20 | 191,2 | 143,2 | 120,0 | 3,20 | 3 | 14 | KFD14-15 | ✓ | 0,215 |
| FD1500120JER00 | 15 | 15,0 | 15,9 | 20 | 25 | 198,9 | 148,9 | 124,0 | 3,31 | 3 | 15 | KFD14-15 | ✓ | 0,275 |
| FD1600128JER00 | 16 | 16,0 | 16,9 | 20 | 25 | 209,0 | 159,0 | 132,0 | 3,70 | 3 | 16 | KFD16-17 | ✓ | 0,315 |
| FD1700136JER00 | 17 | 17,0 | 17,9 | 20 | 25 | 219,0 | 169,0 | 140,0 | 3,88 | 3 | 17 | KFD16-17 | ✓ | 0,340 |
| FD1800144JFR00 | 18 | 18,0 | 18,9 | 25 | 32 | 236,1 | 180,1 | 148,0 | 4,07 | 3 | 18 | KFD18-19 | ✓ | 0,465 |
| FD1900152JFR00 | 19 | 19,0 | 19,9 | 25 | 32 | 245,7 | 189,7 | 156,0 | 4,26 | 3 | 19 | KFD18-19 | ✓ | 0,495 |
| FD2000160JFR00 | 20 | 20,0 | 20,9 | 25 | 32 | 255,3 | 199,3 | 164,0 | 4,44 | 3 | 20 | KFD20-21 | ✓ | 0,530 |
| FD2100168JFR00 | 21 | 21,0 | 21,9 | 25 | 32 | 264,8 | 208,8 | 172,0 | 4,62 | 3 | 21 | KFD20-21 | ✓ | 0,555 |
| FD2200176JFR00 | 22 | 22,0 | 22,9 | 25 | 32 | 274,4 | 218,4 | 180,0 | 4,78 | 3 | 22 | KFD22-23 | ✓ | 0,585 |
| FD2300184JGR00 | 23 | 23,0 | 23,9 | 32 | 42 | 287,8 | 227,8 | 188,0 | 5,02 | 3 | 23 | KFD22-23 | ✓ | 0,850 |
| FD2400192JGR00 | 24 | 24,0 | 24,9 | 32 | 42 | 297,4 | 237,4 | 196,0 | 5,18 | 3 | 24 | KFD24-25 | ✓ | 0,980 |
| FD2500200JGR00 | 25 | 25,0 | 25,9 | 32 | 42 | 307,0 | 247,0 | 204,0 | 5,29 | 3 | 25 | KFD24-25 | ✓ | 1,055 |

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Stahl/Guss Bearbeitung



flacher Grund Bearbeitung



| Stahl/Guss Bearbeitung | | | | flacher Grund Bearbeitung | | | |
|------------------------|------------|---------------|----------|---------------------------|------------|---------------|----------|
| D | Stahl/Guss | Artikel-Nr. | Qualität | D | Stahl/Guss | Artikel-Nr. | Qualität |
| | | flacher Grund | | | | flacher Grund | |
| 12,0 | FPC1200R01 | FPF1200R01 | IN 2205 | 16,6 | FPC1660R01 | | IN 2205 |
| 12,1 | FPC1210R01 | | IN 2205 | 16,7 | FPC1670R01 | | IN 2205 |
| 12,2 | FPC1220R01 | | IN 2205 | 16,8 | FPC1680R01 | | IN 2205 |
| 12,3 | FPC1230R01 | | IN 2205 | 16,9 | FPC1690R01 | | IN 2205 |
| 12,4 | FPC1240R01 | | IN 2205 | 17,0 | FPC1700R01 | FPF1700R01 | IN 2205 |
| 12,5 | FPC1250R01 | FPF1250R01 | IN 2205 | 17,1 | FPC1710R01 | | IN 2205 |
| 12,6 | FPC1260R01 | | IN 2205 | 17,2 | FPC1720R01 | | IN 2205 |
| 12,7 | FPC1270R01 | | IN 2205 | 17,3 | FPC1730R01 | | IN 2205 |
| 12,8 | FPC1280R01 | | IN 2205 | 17,4 | FPC1740R01 | | IN 2205 |
| 12,9 | FPC1290R01 | | IN 2205 | 17,5 | FPC1750R01 | FPF1750R01 | IN 2205 |
| 13,0 | FPC1300R01 | FPF1300R01 | IN 2205 | 17,6 | FPC1760R01 | | IN 2205 |
| 13,1 | FPC1310R01 | | IN 2205 | 17,7 | FPC1770R01 | | IN 2205 |
| 13,2 | FPC1320R01 | | IN 2205 | 17,8 | FPC1780R01 | | IN 2205 |
| 13,3 | FPC1330R01 | | IN 2205 | 17,9 | FPC1790R01 | | IN 2205 |
| 13,4 | FPC1340R01 | | IN 2205 | 18,0 | FPC1800R01 | FPF1800R01 | IN 2205 |
| 13,5 | FPC1350R01 | FPF1350R01 | IN 2205 | 18,1 | FPC1810R01 | | IN 2205 |
| 13,6 | FPC1360R01 | | IN 2205 | 18,2 | FPC1820R01 | | IN 2205 |
| 13,7 | FPC1370R01 | | IN 2205 | 18,3 | FPC1830R01 | | IN 2205 |
| 13,8 | FPC1380R01 | | IN 2205 | 18,4 | FPC1840R01 | | IN 2205 |
| 13,9 | FPC1390R01 | | IN 2205 | 18,5 | FPC1850R01 | FPF1850R01 | IN 2205 |
| 14,0 | FPC1400R01 | FPF1400R01 | IN 2205 | 18,6 | FPC1860R01 | | IN 2205 |
| 14,1 | FPC1410R01 | | IN 2205 | 18,7 | FPC1870R01 | | IN 2205 |
| 14,2 | FPC1420R01 | | IN 2205 | 18,8 | FPC1880R01 | | IN 2205 |
| 14,3 | FPC1430R01 | | IN 2205 | 18,9 | FPC1890R01 | | IN 2205 |
| 14,4 | FPC1440R01 | | IN 2205 | 19,0 | FPC1900R01 | FPF1900R01 | IN 2205 |
| 14,5 | FPC1450R01 | FPF1450R01 | IN 2205 | 19,1 | FPC1910R01 | | IN 2205 |
| 14,6 | FPC1460R01 | | IN 2205 | 19,2 | FPC1920R01 | | IN 2205 |
| 14,7 | FPC1470R01 | | IN 2205 | 19,3 | FPC1930R01 | | IN 2205 |
| 14,8 | FPC1480R01 | | IN 2205 | 19,4 | FPC1940R01 | | IN 2205 |
| 14,9 | FPC1490R01 | | IN 2205 | 19,5 | FPC1950R01 | FPF1950R01 | IN 2205 |
| 15,0 | FPC1500R01 | FPF1500R01 | IN 2205 | 19,6 | FPC1960R01 | | IN 2205 |
| 15,1 | FPC1510R01 | | IN 2205 | 19,7 | FPC1970R01 | | IN 2205 |
| 15,2 | FPC1520R01 | | IN 2205 | 19,8 | FPC1980R01 | | IN 2205 |
| 15,3 | FPC1530R01 | | IN 2205 | 19,9 | FPC1990R01 | | IN 2205 |
| 15,4 | FPC1540R01 | | IN 2205 | 20,0 | FPC2000R01 | FPF2000R01 | IN 2205 |
| 15,5 | FPC1550R01 | FPF1550R01 | IN 2205 | 20,1 | FPC2010R01 | | IN 2205 |
| 15,6 | FPC1560R01 | | IN 2205 | 20,2 | FPC2020R01 | | IN 2205 |
| 15,7 | FPC1570R01 | | IN 2205 | 20,3 | FPC2030R01 | | IN 2205 |
| 15,8 | FPC1580R01 | | IN 2205 | 20,4 | FPC2040R01 | | IN 2205 |
| 15,9 | FPC1590R01 | | IN 2205 | 20,5 | FPC2050R01 | FPF2050R01 | IN 2205 |
| 16,0 | FPC1600R01 | FPF1600R01 | IN 2205 | 20,6 | FPC2060R01 | | IN 2205 |
| 16,1 | FPC1610R01 | | IN 2205 | 20,7 | FPC2070R01 | | IN 2205 |
| 16,2 | FPC1620R01 | | IN 2205 | 20,8 | FPC2080R01 | | IN 2205 |
| 16,3 | FPC1630R01 | | IN 2205 | 20,9 | FPC2090R01 | | IN 2205 |
| 16,4 | FPC1640R01 | | IN 2205 | 21,0 | FPC2100R01 | FPF2100R01 | IN 2205 |
| 16,5 | FPC1650R01 | FPF1650R01 | IN 2205 | 21,5 | FPC2150R01 | FPF2150R01 | IN 2205 |

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| D | Artikel-Nr. | | Qualität |
|------|-------------|---------------|----------|
| | Stahl/Guss | flacher Grund | |
| 22,0 | FPC2200R01 | FPF2200R01 | IN 2205 |
| 22,5 | FPC2250R01 | FPF2250R01 | IN 2205 |
| 23,0 | FPC2300R01 | FPF2300R01 | IN 2205 |
| 23,5 | FPC2350R01 | FPF2350R01 | IN 2205 |
| 24,0 | FPC2400R01 | FPF2400R01 | IN 2205 |
| 24,5 | FPC2450R01 | FPF2450R01 | IN 2205 |
| 25,0 | FPC2500R01 | FPF2500R01 | IN 2205 |
| 25,5 | FPC2550R01 | FPF2550R01 | IN 2205 |

| D | Artikel-Nr. | | Qualität |
|---|-------------|---------------|----------|
| | Stahl/Guss | flacher Grund | |

Ingersoll Cutting Tools

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